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**PSC Resources Superfund Site** 

Palmer, Massachusetts

Second Five-Year Review Report

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Director

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### **PSC Resources Superfund Site**

#### Palmer, Massachusetts

### Second Five-Year Review Report

#### I. Introduction

EPA New England Region has conducted a second five-year review of the remedial actions implemented at the PSC Resources Superfund Site in Palmer, Massachusetts. This review was conducted from March 2005 through September 2005. This report documents the results of the review. The purpose of the five-year review is to determine whether the remedy at a site is protective of human health and the environment. The methods, findings, and conclusions of reviews are documented in five-year review reports. In addition, five-year review reports identify deficiencies found during the review, if any, and identify recommendations to address them.

This review is required by statute. EPA must implement five-year reviews consistent with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). CERCLA 121(c), as amended, states:

If the President selects a remedial action that results in any hazardous substances, pollutants, or contaminants remaining at the site, the President shall review such remedial action no less often than each five years after the initiation of such remedial action to assure that human health and the environment are being protected by the remedial action being implemented.

The NCP part 300.430(f)(4)(ii) of the Code of Federal Regulations (CFR) states:

If a remedial action is selected that results in hazardous substances, pollutants, or contaminants remaining at the site above levels that allow for unlimited use and unrestricted exposure, the lead agency shall review such action no less often than every five years after the initiation of the selected remedial action.

This is the second five-year review for the PSC Resources Site. The triggering action for this review is the initiation of the remedial action on September 12, 1995. Due to the fact that hazardous substances, pollutants, or contaminants remain at the site above levels that allow for unrestricted use and unlimited exposure, a five-year review is required.

### II Site Chronology

DATE	EVENT
1978	Massachusetts Department of Environmental Quality Engineering (DEQE)(now Mass Department of Environmental Protection or DEP), initiates actions against facility owners resulting in closing of facility.
1982 - 1984	Removal Activities - removing drums, liquids and sludge from tanks.
9/83	Final listing on EPA National Priorities List.
1986	Additional removal activities - Demolition and removal of remaining storage tanks and waste material contained in tanks.
1/92	Remedial Investigation/Feasibility Study (RI/FS) made available to public.
3/92	Proposed Plan identifying EPA's preferred remedy, presented to public. Start of public comment period.
9/15/92	Record of Decision (ROD) choosing the remedy is signed.
2/95	Consent Decree finalizing settlement for Responsible Party performance of remedy, entered by Federal Court.
9/11/95	Start of on-site construction for building/structures demolition and decontamination (1 <sup>st</sup> phase of site Remedial Action and date which triggers 5-year review). Completed 7/30/96.
11/26/96	Explanation of Significant Differences (ESD) issued by EPA, primarily changing a component of the remedy from "in-situ" to "ex-situ".
5/5/97	Start of on-site construction for stabilization remedy (2 <sup>nd</sup> phase of site Remedial Action).
8/28/98	Construction Completion.
9/8/98	Start of Operation and Maintenance.

### III Background

The PSC Resources Site is an approximately four acre facility located on Water Street adjacent to and upgradient of the Quaboag River in Palmer, Massachusetts. Palmer is a community of approximately 12,000 residents, located in Hampden County. In addition to the property parcel, the Site includes the adjacent wetlands, wooded area and the immediately adjacent portion of the river(see Figure 1). The Site is located within the 100-year flood zone of the Quaboag River. The Site is bordered by Water Street, wetlands and woodlands, by the Quaboag River, and by a soccer field. Residential and commercial properties are located across Water Street from the Site.

The historic land use of the Site has entailed some petroleum or solvent related industry since at least 1900. From at least 1974 until operations ceased in 1978 activities at the Site included waste oil and solvent recovery and disposal. In the course of these operations, spills occurred causing contamination of soils, sediments and groundwater. Contamination at the Site was discovered in the course of several property inspections conducted by the DEQE which documented; improper maintenance as well as waste oil and hazardous materials spills. Hazardous substances which have been released at the site in the following media include:

<u>Soil</u>	<u>Lagoon Sediment</u>	Groundwater
PCBs	Bis(2-	Bis(2-
PAHs	ethylhexyi)phthalate	ethylhexyl)phthalate
1,1-Dichloroethane	PAHs	Vinyl Chloride
Cis-1,2-Dichloroethylene	1,1-Dichlorethane	1,1-Dichloroethane
Trans-1,2-	1,1,1-Trichloroethane	Cis-1,2-Dichloroethylene
Dichloroethylene	Trichloroethylene	Trans-1,2-
1,1,1-Trichlorethane	Tetrachloroethylene	Dichloroethylene
Trichloroethylene	Methylene Chloride	1,1,1-Trichlorethane
Tetrachloroethylene	Benzene	Methylene Chloride
Benzene	Acetone	Trichloroethylene
Lead	Lead	Tetrachloroethylene
	Wetland Sediment	Benzene
	PCBs	2-Butanone (MEK)
	PAHs	Acetone
	Arsenic	Lead
	Lead	
	Zinc	

From 1978 to 1984, as a result of enforcement efforts by the Commonwealth of Massachusetts, approximately 1.5 million gallons of waste material were removed from the Site during a number of separate events. In 1986, interim measures were taken to; establish complete fencing of the Site, demolish and dispose of 19 storage tanks, dispose of the oil and water contained in the tanks, and dispose of sludge generated during the cleaning of tanks.

There is currently a fence on the Site. The treated, stabilized soils and sediments are contained within the fenced area under an impermeable cap. The wetland and enhancement areas are not within the fenced area. As mentioned above, the current land use for the surrounding area is residential, commercial (both are across the street from the Site) and recreational (the adjacent soccer field). Although there have been a number of zoning changes over the years, it is anticipated that a mix of land uses similar to that described will continue into the future. According to the Town of Palmer Planning Board, properties along Water Street are currently zoned for either residential or industrial use. In establishing cleanup requirements for the Site, EPA considered the theoretical possibility of residential development at the Site.

### IV Remedial Actions

### A. Remedy Selection

The Record of Decision (ROD) for the PSC Resources site was signed on September 15, 1992. Remedial Action Objectives (RAOs) were developed as a result of data collected during the Remedial Investigation to aid in the development and screening of remedial alternatives to be considered for the Record of Decision. The RAOs for PSC Resources were:

### Source Control Response Objectives

- Minimize the migration of contaminants from the property soils and lagoon sediment that could degrade ground water quality;
- Reduce risks to human health by preventing direct contact with, and ingestion of, contaminants in the property soils, wetland sediments, and lagoon sediments; and potential ingestion of contaminated ground water;
- Reduce risks to the environment by preventing direct contact with, and ingestion of, contaminants in the wetland sediments;
- Minimize the migration of contaminants (i.e., from property soils, lagoon sediments, and wetland sediments) that could result in surface water concentrations in excess of Ambient Water Quality Criteria.

### Management of Migration Response Objectives

- Eliminate or minimize the threat posed to human health and the environment by preventing exposure to ground water contaminants;
- Prevent further migration of ground water contamination beyond its current extent; and

 Restore contaminated ground water to Federal and State applicable or relevant and appropriate requirements (ARARs), including drinking water standards, and to a level that is protective of human health and the environment within a reasonable period of time.

The major components of the source control remedy selected in the ROD include:

- 1. Decontamination, demolition, and off-site disposal of property structures;
- 2. Treatment and discharge of lagoon surface water;
- 3. Consolidation of contaminated property soils with lagoon and wetland sediments on site property;
- 4. In-situ mixing and stabilization of property soils/sediments with treatment agents to bind contaminants into a stable matrix;
- 5. Construction of a permeable cap over stabilized property soils and sediments, and grading and planting of the cap's surface;
- 6. Restoration of wetlands:
- 7. Implementation of institutional controls on groundwater use and land development; and
- 8. Long-term monitoring of groundwater, wetland sediments, and Quaboag River water and sediments.

The major components of the management of migration remedy selected in the ROD include:

- 1. Use of natural attenuation to achieve groundwater cleanup levels;
- 2. Groundwater monitoring of existing wells on the PSC Resources, Inc. property and of monitoring wells adjacent to the property;
- 3. Sediment sampling of portions of the wetland and the Quaboag River, where groundwater discharges to the wetland and the Quaboag River;
- 4. Surface water sampling in areas adjacent to the wetland and in the Quaboag River; and
- 5. Five-year site reviews to assess site conditions, contaminant distributions, and any associated site hazards.

An Explanation of Significant Differences (ESD) was issued on November 26, 1996. The primary changes documented in the ESD were:

- Ex-situ stabilization instead of in-situ; and
- Construction of a low-permeability cap instead of a permeable cap.

The change to ex-situ stabilization led to the necessity of designating a Corrective Action Management Unit (CAMU) at the Site concurrent with the ESD. This designation allowed the handling and temporary storage of contaminated soils and

sediments which was necessary using ex-situ stabilization.

### B. Remedy Implementation

In a Consent Decree (CD) signed with EPA on September 18, 1994, the Performing Settling Defendants (PSDs) agreed to perform the remedial design/remedial action (RD/RA). The RD was conducted in conformance with the ROD as modified by the ESD. The RD was approved by EPA on March 5, 1997.

The Remedial Action (RA) took place in two phases. The first phase entailed the decontamination, demolition and off-site disposal of property structures. The activities for this phase were initiated on September 12, 1995 and were completed on December 28, 1995. The major components of this phase of the RA were:

- Decontamination of the buildings and structures on the property;
- Removal, treatment, and discharge to the Quaboag River of water from the basement of one building and water collected from decontamination.
- Collection and analyses of composite samples of buildings and structures.
- Demolition and off-site disposal of property buildings and structures and off-site disposal of miscellaneous debris from the property;
- Removal and off-site disposal of two underground storage tanks and one manhole and their contents; and
- Restoration of demolition areas to match existing grade.

The second phase entailed all other remedial activities. Component numbers 2 through 7 of the Source Control Remedy as listed in Section A., constituted the primary activities performed as the second phase of the RA. The activities for the second phase of the RA were formally initiated on March 11, 1997 when the PSDs awarded the RA contract. The contractor conducted remedial activities as planned and EPA and the State conducted a pre-final inspection on November 19, 1997. During this period, 1,606 cubic yards of lagoon sediment, 1,187 cubic yards of wetland sediment and 8,004 cubic yards of soil were treated, stabilized and placed under the impermeable cap. In addition, a fence and surface water drainage structures were built. At this time, the preparation for the wetland restoration (grading and backfilling of clean sediment material) and the planting of new, replacement wetland species was accomplished. The pre-final inspection concluded that construction had been completed in accordance with the remedial design plans and specifications and did not result in the development of a punch list. The *Final Remedial Construction Source Control Close-out Report*, submitted by the PSDs has been approved by EPA and MADEP.

The site achieved construction completion status when the Preliminary Close Out Report was signed on August 28, 1998.

EPA and the state have determined that all RA construction activities, including the implementation of institutional controls, were performed according to specifications. The Interim RA Report documenting the completion of Remedial Action, was issued on March 8,1999. It is expected that cleanup levels for all groundwater contaminants will have been reached within approximately 10 years. After groundwater cleanup levels have been met, EPA will issue a Final RA Report.

### C. Operation and Maintenance

The PSDs are conducting long term monitoring and maintenance activities according to the operation and maintenance (O&M) plan which was approved by EPA September 8, 1998. The primary activities associated with O&M include:

- Visual inspection of the cap with regard to vegetative cover, settlement, stability, and any need for corrective action. In addition, the cap is scheduled to be mowed semi-annually.
- Inspection of the drainage swale for blockage, erosion and instability, and any need for corrective action.
- Inspection of the condition of groundwater monitoring wells.
- Environmental monitoring. Groundwater, wetland surface water and sediment, and Quaboag River surface water and sediment were initially monitored quarterly. This was followed by 3 years of semi-annual monitoring, and starting in June 2003, annual monitoring.
- Engineered Wetlands inspection and assessment. Inspections are conducted primarily for the purposes of assessing both weed control needs and the survival of plantings. Assessments are performed specifically to determine if the Engineered wetlands are meeting the performance standards regarding the survival and density of desired wetland species.

The primary cleanup of the PSC Resources Site took place during the construction phase of the Remedial Action (i.e. the stabilization of contaminated soil and sediments). The other remaining component of cleanup is the natural attenuation of groundwater, as the source of groundwater contamination in soil and sediment has been removed. Therefore, as indicated in the planned elements above, the primary O&M activities have been geared towards inspections and maintenance.

The First Five-Year Review documented an access issue with an adjacent private property on which wetland restoration activities had taken place. The PSD contractor was unable to perform wetland inspection and maintenance activities (weeding and re-planting, as necessary) on this property (Figure 2, Hafner) as required in the O&M Plan. The total area of restored wetlands at the Site was 0.7 acres. The access issue affected 0.32 acres of restored wetlands. Because these 0.32 acres could not be maintained, it was assumed that target criteria for shrub density and groundcover would not be achieved in this area. Therefore the PSD contractor proceeded to identify alternate areas on the Site for restoration or enhancement.

In 2000 and 2001, additional on-site wetland or upland acreage was identified and underwent restoration or enhancement (primarily eradication of invasive species and planting of desirable shrubs and groundcover). The restoration/enhancement acreage at PSC Resources now totals 0.97 acres. The change in acreage and additional target criteria (performance standards for survival and density of desired species) were documented in a "Non-Material Modification" to the Consent Decree signed on October 29, 2002.

The 0.97 acres is made up of 5 restoration areas, and 5 enhancement areas. As of the September 2004 evaluation (letter report dated January 18, 2005), 4 of the 5 restoration areas have met their respective target criteria and no longer require monitoring or maintenance. The fifth area is very close to achieving target criteria. The 5 enhancement areas have met their respective target criteria. Monitoring and eradication of invasive species in the enhancement areas will continue in 2005.

The wetland issue and progress described above have had no impact on the protectiveness of the remedy or the potential release of contaminants.

### V. Progress Since the Last Five-Year Review

The first five-year review was conducted in September, 2000. At that time, the PSC Resources site was already in the O&M phase. Since the first five-year review:

- Ground water contaminant levels have continued to fall, with levels meeting or approaching the cleanup levels required in the ROD. In the most recent monitoring events only benzene and vinyl chloride have exceeded their respective cleanup levels.
- Surface water cleanup levels have been met in the site wetlands and the Quaboag River eliminating the need for further surface water monitoring.
- Cleanup levels in wetland sediment have been met for total PAH, total PCBs, arsenic and lead. Monitoring will no longer take place for these contaminants. Zinc in wetland sediment will be monitored for in 2005. If zinc levels remain below cleanup levels, zinc will be eliminated from the monitoring program.

- Cleanup levels in Quaboag River sediment have been met for volatile organic compounds (VOC's) and bis(2-Ethylhexyl)phthalate (BEHP).
   Monitoring will no longer take place for these contaminants. Lead in Quaboag River sediment is approaching background levels and will be monitored for in 2005. If lead concentrations remain within an acceptable background concentration range, lead may be eliminated from the monitoring program.
- The engineered wetlands program has largely been successful. Nine out of ten areas have met their respective performance criteria.

### VI. Five-Year Review Process

The PSC Resources five-year review was led by Don McElroy of EPA, Remedial Project Manager for the PSC Resources site. Garry Waldeck of MADEP assisted in the review as the representative for the support agency.

This five-year review has consisted of:

- review of relevant Site documents (see Attachment 1);

The ROD and ESD were reviewed, as well as numerous documents associated with operation and maintenance activities. Aside from wetlands issues discussed previously, maintenance and inspection issues have been almost non-existent. Necessary follow-up activities have been minimal.

- review of applicable groundwater cleanup standards;
  Federal and Massachusetts standards have been examined, indicating that the existing cleanup standards remain relevant.
  - review of monitoring data results;

Monitoring data (see Table) shows significant progress towards cleanup levels, with two contaminants (benzene and vinyl chloride) not having met cleanup levels. However, benzene and vinyl chloride are approaching their respective cleanup levels.

review of Town of Palmer Planning Board records;

A review of records at the Town of Palmer Planning Board confirms that the area around the site remains zoned for a mix of industrial and residential uses.

- review of documents filed at the Hampden County Registry of Deeds; and A review of documents filed at the Hampden County Registry of Deeds demonstrates that institutional control documents which restrict activity and usage at the site are in place.
  - visit to the PSC Resources Site.

A site visit in August 2005 demonstrated that the wetlands, landfill cap and security fence are all in good condition.

The completed report is available at the information repository.

### VII. Technical Assessment

### Question A: Is the remedy functioning as intended by the decision documents?

The review of documents, ARARs (relevant standards), risk assumptions, and the results of the site visit indicate that the remedy is functioning as intended in the ROD, as modified by the ESD.

As discussed previously, the active work for the PSC Resources Site Remedial Action, the treatment and capping of contaminated soil and sediment, has been completed. There are really no ongoing operations at the Site.

Groundwater is being remediated via natural attenuation following removal of contamination sources in soil and sediments. The monitoring record shows that groundwater contamination has not migrated beyond its extent at the time of the ROD. The monitoring record indicates that the groundwater attenuation process conceptualized in the ROD is proceeding as expected. Most contaminants have fallen below their respective cleanup levels for some time. Benzene and vinyl chloride have continued to progress toward their cleanup levels of 5 parts per billion (ppb) and 2 ppb respectively. Groundwater monitoring data is included in this report as Table 1. As discussed earlier, monitoring is currently conducted on an annual basis.

Restored wetlands have been monitored and maintained as required in the O&M Plan. Nine out of ten restoration areas have achieved their required performance criteria.

EPA conducted the most recent inspection of the Site in August 2005. No issues were identified at that time. All fences and barriers were intact and in good repair, cap vegetation and drainage swales were in good condition and restoration/enhancement areas appeared in good condition. No evidence of trespassing or vandalism was noted.

#### Institutional Controls

Institutional controls are in place for the PSC Resources property as well as for the adjacent Town-owned property, the only properties on or near the Site requiring institutional controls. These institutional controls are established through the Access and Institutional Controls Agreement between the Performing Settling Defendants and the Town of Palmer (Appendix J of the Consent Decree), dated October 20, 1994, and recorded on June 19, 1997 in the Hampden County Registry of Deeds at Book 9901, pages 118 through 136. Paragraph 7 of Appendix J identifies the institutional controls which are in place, including prohibitions on the use or disturbance of ground water until cleanup levels are achieved, and prohibitions on excavation activities, disturbance of

the cap, and any other activities or actions which might interfere with the implemented remedy. There has been no evidence found of activity in the last five years which is inconsistent with the institutional controls.

### Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives (RAOs) used at the time of the remedy selection still valid?

There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy.

As the remedial work has been completed, most ARARs cited in the ROD, do not have current relevancy. ARARs which do retain relevancy at this time and which have been evaluated include: the Safe Drinking Water Act (SDWA)(40 CFR 141.11-141.16) from which were derived many of the groundwater cleanup levels - Maximum Contaminant Levels (MCLs), and MCL Goals (MCLGs); ARARs related to wetland protection, and ARARs related to post-closure monitoring. There have been no changes in these ARARs affecting the protectiveness of the PSC Remedy.

The exposure assumptions used to develop the Human Health Risk Assessment included both current exposures (older child trespasser, adult trespasser) and potential future exposures (young and older child future resident, future adult resident and future adult worker). These assumptions are considered to be conservative and reasonable in evaluating risk and developing risk based cleanup levels. No change to these assumptions or the cleanup levels developed from them, is warranted.

### Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

No information has come to light that could call into question the protectiveness of the remedy. Site inspection and monitoring results indicate that the remedy is protective.

### Technical Assessment Summary

According to the data reviewed and the site inspection, the remedy is functioning as intended by the ROD, as modified by the ESD. There have been no changes in the physical conditions of the site that would affect the protectiveness of the remedy. Institutional controls are in place to restrict activity and usage at the site.

#### VII. Protectiveness Statement

As documented in the First Five-Year Review, the remedy for the PSC Resources Site was implemented as required in the ROD, as modified by the ESD. Verification sampling determined that soil and sediment with contamination above cleanup levels had been excavated. Analytical testing showed that the treatment

process was effective on the contaminated material (soil and sediment) and that all performance criteria were achieved.

At this time, the assumptions used at the time of remedy selection are valid and no changes to cleanup levels are warranted. Groundwater monitoring shows that natural attenuation is progressing towards achieving cleanup levels. The threats posed by exposure to contaminated soil and sediment at the PSC Resources have been addressed. Institutional controls have been put in place to ensure that contaminated groundwater is not used and that no actions take place which interfere with the implemented remedy. The remedial action at PSC Resources will be protective when the groundwater cleanup levels are achieved as expected.

#### VIII. Conclusions

As noted there really no "operations" at the PSC Resources Site. The ongoing activities relate to maintenance and monitoring.

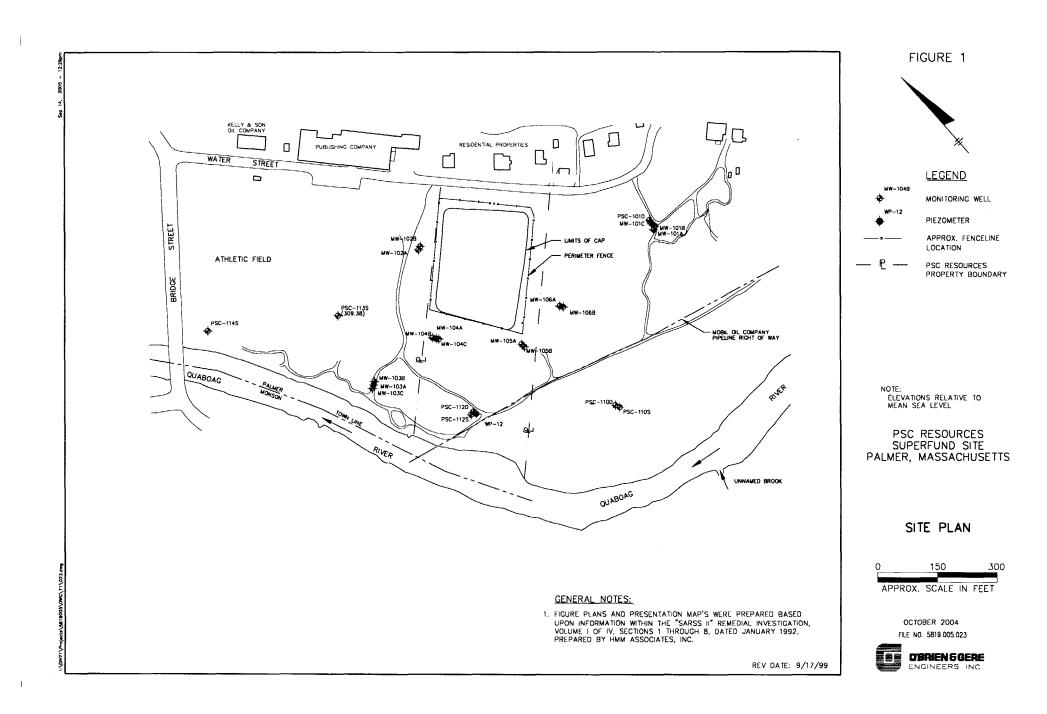
The maintenance of restored wetlands, is nearly complete. Restoration and enhancement areas have met target performance criteria in nine of ten areas. Maintenance activities will continue in the area which has not yet fully met its target performance criteria.

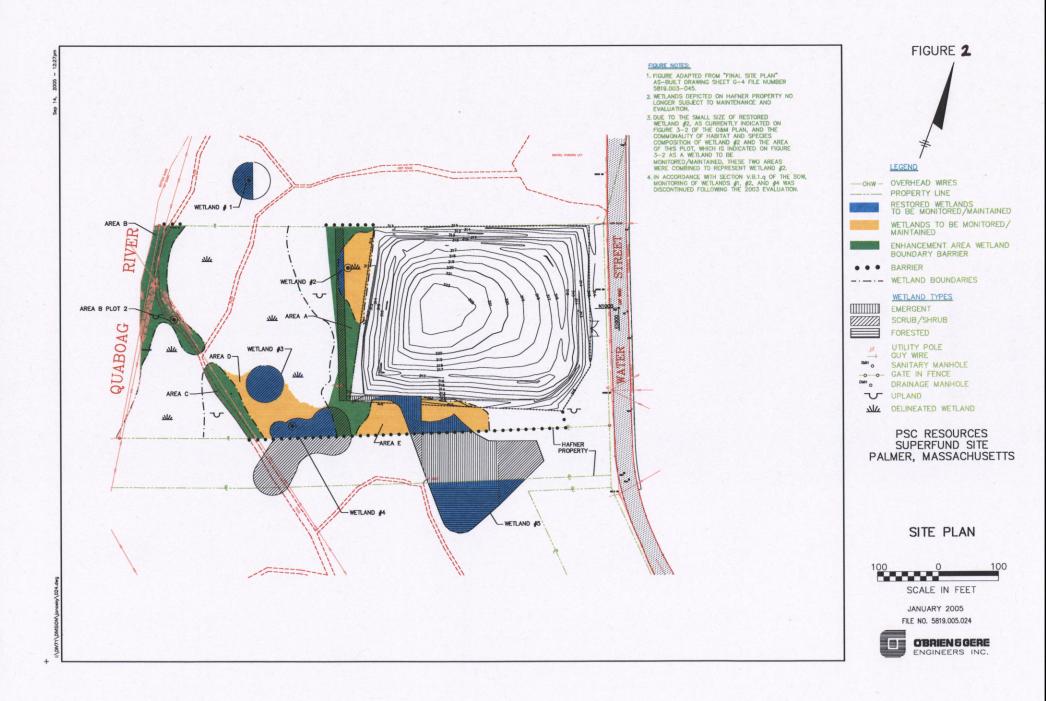
Inspection and maintenance of the fence, cap and drainage systems has been straightforward and has necessitated minimal follow-up during the O&M period.

Environmental monitoring will continue to be a long term activity until at least attainment of groundwater cleanup levels.

#### IX. Next Review

Five-year reviews are conducted every five years at sites where contaminant levels remain at concentrations that prevent unlimited, unrestricted use of the Site. The next five-year review for the PSC Resources Superfund Site should be conducted by 2010.





Charriant Name	Location ID Aquifer Type Lab Sample ID Sample Date Test Type	Ground Water Interim Cleanur	EM-MW-101C Overburden J7234 9/30/1998 Initial	EM-MW-101C Overburden K2183 12/14/1998 Initial	EM-MW-101C Overburden K8057 3/16/1999 Initial	EM-MW-101C Overburden M4251 6/14/1999 Initial	EM-MW-101C Overburden N1966 9/20/1999 Initial	EM-MW-101C Overburden N6675 12/13/1999 Initial	EM-MW-101C Overburden Q0661 3/13/2000 Initial	EM-MW-101C Overburden Q6352 6/12/2000 Initial
Chemical Name Volatile Organic Compounds	Unit	Level						<del></del>		
1,1,1-Trichloroethane	ug/L	200	0.50 U	0.50 U	0.50 U	0.50 U	*0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	3600	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone (MEK)	ug/L	350		THE RESERVE OF THE PROPERTY OF	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	3500	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U
Benzene	ug/L	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	ug/L	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene +	Tug/L	5	0.50.U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U.	0.50 U
Trichloroethene (TCE)	ug/L	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	additional and the second of t	-1.0 U	1.0 U	1.0 U	1.0 U		1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	70	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroothene	· ug/L	100	ACCORDING TO THE RESIDENCE OF THE PARTY OF T	0.50 U	0.50 U	0.50 U	0.50 U	-0.50 U	0.50 U	0.50 U
Semivolatile Organic Compounds										
bis(2-Ethylhexyl)phthalate (BEHP)	ug/L	6	5.3 U	5.3 U	5.2 U	5.1 U	5.2 U	6.7 U	5.1 U	1.0 J
Metals										
Lead	mg/L-	0,015	0.005 U	0.005 U	0.005 U	0.003.)	0.005 U	0.005 U	0.005 U	0:005 U
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NOTES: (1) U - not detected, J - estimated, \* - execeeds cleanup level, D - result from diluted analysis

<sup>(2)</sup> Only parameters for which there are cleanup levels are reported.

Chemical Name	Location ID Aquifer Type Lab Sample ID Sample Date Test Type Unit	Ground Water Interim Cleanup Level	EM-MW-101C Overburden R7573 12/19/2000 Initial	EM-MW-101C Overburden S6638 6/4/2001 Initial	EM-MW-101C Overburden T6799 12/10/2001 Initial	EM-MW-101C Overburden V4207 6/17/2002 Initial	EM-MW-101C Overburden Z1042 12/3/2002 Initial	EM-MW-101C Overburden A7160 6/17/2003 Initial	EM-MW-101C Overburden E2270 6/21/2004 Initial	EM-MW-102B Overburden J7104 9/29/1998 Initial
Volatile Organic Compounds			3.51	<del></del>						
1.1.1.Trichloroethane	.uo/L	200	0.50 U	0.50 U	0.5 U	0.50 U	.0.5 U	0.50 U	0.50 U	-0,50 U
1,1-Dichloroethane	ug/L ug/L	3600 <b>350</b>	0.50 U	0.50 U 10 UJ	0.5 U 10 U	0.50 U <b>10. UJ</b>	0.5 U - <b>10 U</b>	0.50 U - <b>10. U</b>	0.50 U <b>10. U</b>	0.66 -10 U
2-Butanone (MEK) Acetone	ug/L ug/L	3500	10 U	10 UJ	10 U 10 U	10. UJ	10 U 10 UJ	1.8 J	10. U 10 UJ	10 U
Benzene	ug/L		0.50 U		0.5 U	0.50 U	0.5 U	0.50 U		0,50 U
Methylene chloride	ug/L	5	2.0 U	2.0 U	2 U	2.0 U	2 U	2.0 U	2.0 U	0.50 U
Tetrachloroethene	ug/L=++1%	.5	0.50 U			0.50 U	0.5 U	0.50 U	0,50 U	0.50 U= 5
Trichloroethene (TCE)	ug/L	5	0.50 U	0.50 U	0.5 U	0.50 U	0.5 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride cis-1,2-Dichloroethene	ug/L	2#	1.00	1.0 U	10_	<b>1.0 ሀ</b> 0.50 ሀ	<b>1 U</b> 0.5 U	<b>1.0 U</b> 0.50 U	1.00	0.43 1
trans 1,2-Dichloroethene	ug/L ·ug/L	70 100	0.50 U	0.50 U <b>0.50 U</b>	0.5 U <b>0.5 U</b>	0.50 U	0.5 U	0.50 U	0.50 U <b>0.50 U</b>	0.82 <b>0.50 U</b>
LOUIS 1/2 DESIGNACIONE	og/ -	100	. 0.30 0		<b></b>				<b>4.30 C</b>	0.00
Semivolatile Organic Compounds				Andrew Control			*	2.500	4	4
bis(2-Ethylhexyl)phthalate (BEHP)	ug/L	6	5.3 U	5.0 U	5.2 U	5.0 U	5 U	5.1 U	5.1 U	5.1 U
Metals										
Lead or processor and the second seco	ema/k	0.015	0.005 U	0.005 U	0.00511	0.005 U	0.00511	0.0013 1	0.0050 U	0.005 U.S
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NOTES: (1) U - not detected, J - estimated, \* - execeeds cleanup level, D - result from diluted analysis

<sup>(2)</sup> Only parameters for which there are cleanup levels are reported.

Volatile Organic Compounds  1.1.1-Trichloroethane	Chemical Name	Location ID Aquifer Type Lab Sample ID Sample Date Test Type Unit	Ground Water Interim Cleanup Level	EM-MW-102B Overburden J7106 9/29/1998 Field Duplicate	EM-MW-102B Overburden K2180 12/14/1998 Initial	EM-MW-102B Overburden K8058 3/16/1999 Initial	EM-MW-102B Overburden M4252 6/14/1999 Initial	EM-MW-102B Overburden N1967 9/20/1999 Initial	EM-MW-102B Overburden N6674 12/13/1999 Initial	EM-MW-102B Overburden Q0662 3/13/2000 Initial	EM-MW-102B Overburden Q6351 6/12/2000 Initial
1.1-TricPloreetiane		Unit	Levei								
1,1-Dichloroethane		ua/L	200	0.50 U	0.50 U	0.50 U 💮 🐇	0.50 U	0.50 U	0,50 U	0.50 U	0.50 U
Acetone		ug/L					0.5		0.33 J	0.25 J	0.21 J
Retrie											
Methylene chloride       ug/L       5       0.50 U       0.50 U </td <td></td> <td>• ************************************</td> <td>CONTRACTOR SERVICE AND ADDRESS OF THE SERVICE AN</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		• ************************************	CONTRACTOR SERVICE AND ADDRESS OF THE SERVICE AN								
Tetrachloroethene ug/L 5 0,50 U 0.50			CONTRACTOR OF THE PROPERTY OF								
Trichloroethene (TCE)											
Vinyl Chloride         Ug/L         2         0,42 J         1.0 U         1.0 U         0.35 J         0.27 J         0.27 J         1.0 U         1.0 U           cis-1,2-Dichloroethene         ug/L         70         0.82         0.67         0.29 J         0.62         0.52         1.2         0.33 J         0.28 J           trans i /2-Dichloroethene         ug/L         100         0.50 U         0.005 U							Committee of the commit				
cis-1,2-Dichloroethene       ug/L       70       0.82       0.67       0.29 J       0.62       0.52       1.2       0.33 J       0.28 J         trans-1,2-Dichloroethene       ug/L       100       0.50 U       0.005 U				audic manager wertenerne rough round in 1955 fig.							
trans 1,2-Dichloroethene ug/L 100 0.50 U 0.5											
bis(2-Ethylhexyl)phthalate (BEHP) ug/L 6 5.1 U 5.2 UJ 5.0 U 5.1 U 5.3 U 5.1 U 5.2 U 5.0 U  Metals Lead mg/L 0.015 0.005 U			CONTROL OF THE PROPERTY OF THE	Company of the Compan							-0.50 U - 🗱
bis(2-Ethylhexyl)phthalate (BEHP) ug/L 6 5.1 U 5.2 UJ 5.0 U 5.1 U 5.3 U 5.1 U 5.2 U 5.0 U  Metals Lead mg/L 0.015 0.005 U											
Metals Lead mg/L 0.01S 0.005 U		<b>*</b>		F411	E 0.113	F 0.11	5411	50.11	- 4 W	5 2 11	5.0.0
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Lead							4 17 19	-	To and		
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NOTES: (1) U - not detected, J - estimated, \* - execeeds cleanup level, D - result from diluted analysis

<sup>(2)</sup> Only parameters for which there are cleanup levels are reported.

## Table 1 PSC Resources Superfund Site Palmer, MA Storic Ground Water Applicated Results and Cleanus

### **Historic Ground Water Analytical Results and Cleanup Levels**

Chemical Name	Location ID Aquifer Type Lab Sample ID Sample Date Test Type Unit	Ground Water Interim Cleanup Level	EM-MW-102B Overburden Q6354 6/12/2000 Field Duplicate	EM-MW-102B Overburden R7574 12/19/2000 Initial	EM-MW-102B Overburden S6639 6/5/2001 Initial	EM-MW-102B Overburden T6800 12/11/2001 Initial	EM-MW-102B Overburden V4208 6/17/2002 Initial	EM-MW-102B Overburden Z1043 12/3/2002 Initial	EM-MW-102B Overburden Z1044RE 12/3/2002 Field Duplicate	EM-MW-102B Overburden A7161 6/17/2003 Initial
Volatile Organic Compounds	Offic	LCVCI	***							
1:1:1-Trichloroethane	ug/L	200-	0.50.U	0.50 U	0.50 U	0.5 U	0.50 U	0.5 U	0.5 U	0.50 U
1,1-Dichloroethane	ug/L	3600	0.22 J	0.24 J	0.13 J	0.25 J	0.50 U	0.11 J	0.12 J	0.50 U
2-Butanone (MEK)	ug/L	350.:	10 U		វិបិណ			10.0		10, U = 1
Acetone	ug/L	3500	3.6 J	10 UJ	10 UJ	10 U	1.2 J	10 UJ	10 UJ	4.7 J
Benzene : 1	ug/Later	CARECULAR DE MONTACION DE COMPANION DE MONTACION DE CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE CO		0.50 U			0.50 U	0.5 U	0.5 U	0.50 U
Methylene chloride Tetrachloroethene	ug/L	5 <b>5</b>	2.0 U	2.0 U 0.50 U	2.0 U 0.50 U	2 U	2.0 U <b>0.50 U</b>	2 U 0.5 U	2 U 0.5 U	2.0 U 0.50 U
Trichloroethene (TCE)	ug/L ug/L	5	<b>0.50 U</b> 0.50 U	0.50 U	0.50 U 0.50 U	0.5 U	0.23 J	0.5 U 0.5 U	0.5 U	0.50 U
Vinyl Chloride	ug/L Lug/L	3 2+*	1.0 U	1.0 U	1.0 U	10	1.0 U	1U	1.0	1.0 U
cis-1,2-Dichloroethene	ug/L	70	0.26 J	0.44 J	0.21 J	0.38 J	0.14 J	0.15 J	0.16 J	0.50 U
trans-1,2-Dichloroethene:	ua/L	ALTO SALES SECTION AND ADMINISTRATION OF THE PROPERTY OF THE P	0.50 U	0.50 U		_0.5 U	0.50 U	0.5 U	0.5 U	0.50 U
Semivolatile Organic Compounds bis(2-Ethylhexyl)phthalate (BEHP)	ug/L	6	1.3 J	5.0 U	1.7 J	5.1 U	5.0 U	5 U	5 U	5.0 U
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1020	mg/L	0.013	0.005 U	0.005 U	0.005 U	. 0.005 0	0.005 U	0.005 U	0.005 U	0.0050 U <u>\$</u>
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	2-480 <sup>8</sup> 12									
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NOTES: (1) U - not detected, J - estimated, \* - execeeds cleanup level, D - result from diluted analysis

<sup>(2)</sup> Only parameters for which there are cleanup levels are reported.

### **Historic Ground Water Analytical Results and Cleanup Levels**

	Location ID Aquifer Type Lab Sample ID Sample Date Test Type	Ground Water Interim Cleanup	EM-MW-102B Overburden A7167 6/17/2003 Field Duplicate	EM-MW-102B Overburden E2271 6/22/2004 Initial	EM-MW-102B Overburden E2274 6/22/2004 Field Duplicate	EM-MW-103C Bedrock J7103 9/29/1998 Initial	EM-MW-103C Bedrock K2258 12/15/1998 Initial	EM-MW-103C Bedrock K8063 3/17/1999 Initial	EM-MW-103C Bedrock M4330 6/15/1999 Initial	EM-MW-103C Bedrock N2202 9/23/1999 Initial
Chemical Name	Unit	Level	,							
Volatile Organic Compounds		2010.							····	
1:171-Trichloroethane	ug/L	-200	0.50 U	0.50 U	0,50 U	0.50 U	~2.5 UD	- 5.0 U	0.50 U -	-2.5 U
1,1-Dichloroethane	ug/L	3600	0.50 U	0.50 U	0.14 J	6.3	5.8 D	4.4 ]	3.5	2.7
2-Butanone (MEK)	ug/Li-T	350 Same	10.UA	-10.U	10.0%	10 U	50 UD		10 U	50 UJ
Acetone	ug/L	3500	6.6 J	10 UJ	10 UJ	10 U	50 UD	100 U	10 U	50 UJ
Benzene	ug/L	5	0.50 U	0.50 U	0.50 U	46	130 D.*	100 *	130 *	130 *
Methylene chloride	ug/L	5	2.0 U	2.0 U	2.0 U	0.51 U	1.6 JD	5.0 U	1.2 U	2.5 U
Tetrachloroethene	Jug/L	5	0.50 U	0.50 U	0.50 U	0.50 U	2.5 UD	5.0 U	0.50 U	2.5 U
Trichloroethene (TCE)	ug/L	5	0.50 U	0.50 U	0.50 U	0.50 U	2.5 UD	5.0 U	0.50 U	2.5 U
Vinyl Chloride		2	1.0 U	1.0 U	1.0 U	12 *	≟5.8 D *	6.63 *	0.49 J	5.0 U 🔞 🌞
cis-1,2-Dichloroethene	ug/L	70	0.50 U	0.21 J	0.22 J	4.7	2.1 JD	5.0 U	0.29 J	2.5 U
trans-1,2-Dichloroethere	ug/L	100	0.50 U	0.50 U	0.50 U	0.50 U	2.5 UD	5.00	0.88	2.5 U
Semivolatile Organic Compounds				The second second	100	2.5	4 Maria			
bis(2-Ethylhexyl)phthalate (BEHP)	ug/L	6	5.0 U	5.1 U	5.2 U	5.3 U	5.0 U	5.1 U	5.1 U	5.2 UJ
No. of the Control of						1000			100	46.
Metals			00000000000000000000000000000000000000							
Lead	mg/L	0.015	0.0050 U	0.0050 U	0.0050 U	0:005 U	0.005 U	0.005 U	0.005 U	0,005 U
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NOTES: (1) U - not detected, J - estimated, \* - execeeds cleanup level, D - result from diluted analysis (2) Only parameters for which there are cleanup levels are reported.

#### **Historic Ground Water Analytical Results and Cleanup Levels**

Chemical Name	Location ID Aquifer Type Lab Sample ID Sample Date Test Type Unit	Ground Water Interim Cleanup Level	EM-MW-103C Bedrock N6728 12/14/1999 Initial	EM-MW-103C Bedrock Q7889 7/11/2000 Initial	EM-MW-103C Bedrock R7577 12/20/2000 Initial	EM-MW-103C Bedrock S6717 6/6/2001 Initial	EM-MW-103C Bedrock T6802 12/11/2001 Initial	EM-MW-103C Bedrock V4421 6/18/2002 Initial	EM-MW-103C Bedrock Z1046 12/4/2002 Initial	EM-MW-103C Bedrock A7163 6/17/2003 Initial
Volatile Organic Compounds	Olik									
	ug/L	200	0.50 U	0.50 U	0.50 U	'0.50 U)	0.5 U	0.50 U 🐣	0.5 U	0.50 U
1,1-Dichloroethane	ug/L	3600	2.6	4	4	1.9	2.2	0.96	3.8 -10 U	2.5 10. U
2-Butanone (MEK) Acetone	<b>ug/L</b> ug/L	<b>350</b> 3500	10 U	<b>10 U</b> 10 U	10 U 51 J	10 U 10 U	10 U 10 U	<b>1.33</b> 6.0 J	10 UJ	0.98 J
Benzene	ug/L	5		18 *	33 *		13 *	14. *	45	18.
Methylene chloride	ug/L	5	2.0 J	2 U	0.54 J	2.0 U	0.32 J	2.0 U	1.1 J	2.0 U
Tetrachloroethere.	ug/L	5	0.50·U	0.50 U	0.50 U	0.50.0	0.540-	0.50 U	0.5 U	0,50 U
Trichloroethene (TCE)	ug/L	5	0.50 U	0.50 U	0.50 U	0.50 U	0.17 J	0.50 U	0.12 J	0.50 U
Virw Chloride				1.00			10	1.0 U	10	0.14.1
cis-1,2-Dichloroethene	ug/L ug/L	70 100	0.10 J 0.50 U	0.50 U 0.14 J	0.15 J 0.17 J	0.50 U 0.12 J	0.5 U 0.5 U	0.50 U 0.12 J	0.5 U <b>0.43 J</b>	0.50 U 0.19 1
GRICH ELINIANCEMENT		100				V-14-4	VIII V			0.23
Semivolatile Oromic Compounds	and the second			100				7-11		1
bis(2-Ethylhexyl)phthalate (BEHP)	ug/L	6	5.2 U	5.1 U	5.0 U	5.1 U	1.3 J n	5.0 U	5 U	5.0 U
Metals	- Car			West Free St					, 7.4 <u>1</u>	
ead (* - resp. part construction of the con-	mg/L	.0.015	0.005 U	0.0013	0.002 3	0.005 U	-0.005 U	0.005 U	0.005 U	0.001135
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<sup>(2)</sup> Only parameters for which there are cleanup levels are reported.

### **Historic Ground Water Analytical Results and Cleanup Levels**

Chemical Name	Location ID Aquifer Type Lab Sample ID Sample Date Test Type Unit	Ground Water Interim Cleanup Level	EM-MW-103C Bedrock E2273 6/22/2004 Initial	EM-MW-104B Overburden J7675 10/9/1998 Initial	EM-MW-104B Overburden K2256 12/15/1998 Initial	EM-MW-104B Overburden K8061 3/17/1999 Initial	EM-MW-104B Overburden M4328 6/15/1999 Initial	EM-MW-104B Overburden N1968 9/20/1999 Initial	EM-MW-104B Overburden N6672 12/13/1999 Initial	EM-MW-104B Overburden Q0665 3/13/2000 Initial
Volatile Organic Compounds	Offic	Level				<del></del>				
1.1.1 Erichloroethane	ua/L	200	0.50.0	Strain of Anna Strain Commission (Commission Commission	12.UD	5.Q.U		5.0 U	25U.5	0.50.U
1,1-Dichloroethane	ug/L	3600	1.8	12	20 D	7	5.8	17 J	11	6
25Butanons (MEK)	, עם/ו			10U:		\$100,U-	10 U	100 U	50 U	/10.U.**
Acetone	ug/L	3500	10 UJ	10 U	1000 UD	100 U	10 U	90 J - 310 J. * *	50 U 120	10 U 58
Benzene Methylene chloride	ug/L ug/L	5	1.9 2.0 U	91 - 1.1 U	12 UD *	110 * 5.0 U	0.65 U	2.5 U	10 U	0.37 J
Tetrachloroethene	ug/L	5		0.50 U	12 UD *	5.0 U				0.50 U
Trichloroethene (TCE)	ug/L	5	0.50 U	0.50 U	50 UD *	5.0 U	0.11 ]	5.0 U	2.5 U	0.50 U
Vinyl Chioride	-ug/ET-12	·2: Timin	1.0 U -		100 UD *		1.00		5:0 U.*	1.0 (1.77)
cis-1,2-Dichloroethene	ug/L	70	0.50 U	0.25 J	32 D	5.0 U	0.50 U	5.0 U	2.5 U	0.50 U
trans-1,2-Dichloroethene	-193/L	100	-0.50 U	0.9	(12 UD)	5.0:U*	-0.22 )	5.00	2.5 U-	0.151) - 184
Semivolatile Organic Compounds						1 T				
bis(2-Ethylhexyl)phthalate (BEHP)	ug/L	6	5.0 U	5.7	5.2 UJ	5.1 U	5.3 U	5.1 U	6.7 U *	5.1 U
Marka la							84.E.S.			
Metals	: mo/L2:22:32	0.015	0.00029	0.005 []	0.01	0.0023	0.005 U	0.005 U	0.005 U	0.00511=24
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				-					-	- Charles
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NOTES: (1) U - not detected, J - estimated, \* - execeeds cleanup level, D - result from diluted analysis

<sup>(2)</sup> Only parameters for which there are cleanup levels are reported.

Chemical Name	Location ID Aquifer Type Lab Sample ID Sample Date Test Type Unit	Ground Water Interim Cleanup Level	EM-MW-104B Overburden Q6344 6/13/2000 Initial	EM-MW-104B Overburden R7758 12/21/2000 Initial	EM-MW-104B Overburden S6721 6/6/2001 Initial	EM-MW-104B Overburden T6987 12/12/2001 Initial	EM-MW-104B Overburden V4424 6/18/2002 Initial	EM-MW-104B Overburden Z1445 12/5/2002 Initial	EM-MW-104B Overburden A7166 6/17/2003 Initial	EM-MW-104B Overburden E2310 6/23/2004 Initial
Volatile Organic Compounds	Offic	Level		·						
1.14 Trichlorosthane	ug/L	- 200	1.0.0	.0.50 U	.0.50 U	<u>. 1</u> .U.ren	120	0.5U	1.3 U	-0,50 U
1,1-Dichloroethane	ug/L	3600	5.3	12	6.5	5.1	2.6	2.4	4.3	5.5
2-Butanons (MEK)	ug/L	350	20 U = 3	THE RESERVE OF STREET, SALES	100	20 U	25.W	100	25.0	10.U
Acetone Benzene	ug/L uo/L	3500	20 U	79 J 82	11 U 67	20 U	25. UJ 68.	10 UJ 70 *	25. U 30. *	10 U) 26
Methylene chloride	ug/L	5	4.0 U	2.0 U	2.0 U	0.53 J	5.0 U	0.43 J	5.0 U	0.41 J
Tetrachioroethere		5	Proper property and the Control of Control o		0.50 U		1.20	0.5 U		0,50 U
Trichloroethene (TCE)	ug/L	5	1.0 U	0.50 U	0.50 U	1 U	1.2 U	0.5 U	1.3 U	0.50 U
Vinyi Chloride	ua/L	2	2.0 U	1.0 U	1.0 U	20	2.5 U *	10	2.5 U.*	LOU-September
cis-1,2-Dichloroethene	ug/L uo/L	70 <b>100</b>	1.0 U	0.50 U	0.50 U 0.18 1	1 U	1.2 U	0.5 U 0.18 )	1.3 U 1.3 U	0.50 U 0.50 U
Uaib (,2')Kiiki Gale E	, UU/L	100	2.0	, Madalania	UMOJ.		1,20	n'io'i	1,20	0.30 U
Semivolatile Organic Compounds							and the same of the same			
bis(2-Ethylhexyl)phthalate (BEHP)	ug/L	6	5.2 U	2.0 J	2.4 J	5.1 UJ	5.0 U	5 U	5.0 U	5.2 U
Metals	politica (P)								ŧ.	
Lead	med t	0.015	0.005 U	0.005 U 338	0.0051	0.005 U	0.00511	-0.005 U	0.0050 U*	=0.0050 U 35
	<b>4</b>	U.V.4-3	. v.vos v		V.W.1 V		0.002 0	V.VV.V		
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particular for the second seco	A	4444	24 500 150	CONT. C.					****	

<sup>(2)</sup> Only parameters for which there are cleanup levels are reported.

### Historic Ground Water Analytical Results and Cleanup Levels

Chemical Name	Location ID Aquifer Type Lab Sample ID Sample Date Test Type Unit	Ground Water Interim Cleanup Level	EM-MW-104C Overburden J7105 9/29/1998 Initial	EM-MW-104C Overburden K2262 12/15/1998 Initial	EM-MW-104C Overburden K8350 3/18/1999 Initial	EM-MW-104C Overburden M4331 6/15/1999 Initial	EM-MW-104C Overburden N2203 9/23/1999 Initial	EM-MW-104C Overburden N6726 12/14/1999 Initial	EM-MW-104C Overburden Q0752 3/14/2000 Initial	EM-MW-104C Overburden Q6346 6/13/2000 . Initial
Volatile Organic Compounds		ECVCI								
Lab La Trichloroethane	polizanie.	200	5.0.U. a	25 UD 3	50.U	0.50 U 1.4	10.0	0.307	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	3600	100 100 1	11 D 50 UD	50 U 1000 U3 (*)	31	3.0 J 200 LD	4.9 -10 U	0.82 10 U	0.96
2-Butanone (MEK) Acetone	ug/L	350 3500	100 U	50 UD	1000 UJ	10 U	200 UJ	10 U	10 U	10 U
Benzene	oug/Lau	5.00	860 -7	2120 D . *	2300= 3=	and the second s	530 . *	2190_*	39.**	240. *
Methylene chloride	ug/L	5	5.0 U	1.2 JD	50 U *	0.50 U	10 U *	2.0 U	2.0 U	2.0 U
Tetrachloroethene		<u> </u>	5.0 U	2.5 UD: 58-5	50 U.*	0.873	10:0.*	0.55		0.243
Trichloroethene (TCE) Vinvi Chloride	ug/L	5	2.6 J	2.5 UD *	15 J *	5.5 *	10 U * 20 U *	0.29 J 1.0 U	0.14 J - <b>1.0 U</b>	0.75 1.0 U
cis-1,2-Dichloroethene	ug/L	70	110 *	2.5 UD	50 U	78 *	7.4 J	5.8	0.88	1.2
trans-1,2-Dichloroethene	ug/L	100	211	2.5 UD.	50 U	Length	10-U	0.50 U		-0.50 U
Semivolatile Organic Compounds bis(2-Ethylhexyl)phthalate (BEHP)	ug/L	6	5.2 UJ	5.3 U	5.1 U	5.1 U	5.1 UJ	5.1 U	5.3 U	1.3 J
Metals										
Lead	.mg/L	0.015	0.0043	0.005 U	0.005 1	0,0043	0.017	0.007	0.003 J	0.004 3
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NOTES: (1) U - not detected, J - estimated, \* - execeeds cleanup level, D - result from diluted analysis

<sup>(2)</sup> Only parameters for which there are cleanup levels are reported.

Chemical Name	Location ID Aquifer Type Lab Sample ID Sample Date Test Type Unit	Ground Water Interim Cleanup Level	EM-MW-104C Overburden R7579 12/20/2000 Initial	EM-MW-104C Overburden S6719 6/6/2001 Initial	EM-MW-104C Overburden S6720 6/6/2001 Field Duplicate	EM-MW-104C Overburden T6986 12/12/2001 Initial	EM-MW-104C Overburden V4423 6/18/2002 Initial	EM-MW-104C Overburden Z1444 12/5/2002 Initial	EM-MW-104C Overburden A7165 6/17/2003 Initial	EM-MW-104C Overburden E2309 6/23/2004 Initial
Volatile Organic Compounds	Offic	Level								
1.1.1.Trichloroethane	nua/L destant	200-	0.50 U	0.50 U	0.50 U	11	10.50 U t	0.5 U	0.50 U 25	0.50.U
1,1-Dichloroethane	ug/L	3600	0.41 J	0.72	0.8	4.4	0.16 J	0.11 J	0.12 J	0.82
2-Butanone (MEK)	au/L	2350	10.00	10 U	10 U	20 U	10.10	JOU		.10.U
Acetone	ug/L	3500	10 UJ	10 U	10 U	20 U	2.8 J	10 UJ	10. U	10 UJ
Benzene	Lug/L: Jack		83.1	72: 1	70.22.5	120132	7.7	417	7.9	74.0
Methylene chloride	ug/L	5	2.0 U	2.0 U	2.0 U	4 U	2.0 U	2 U	2.0 U	2.0 U
Tetrachloroethene	uugit saasiisis	<u>Ş</u>	0.52	0,200	0,224)-		0.391 7	.0.42	0.12.3	≠0.50 U 1.5 π.E.
Trichloroethene (TCE) Virtyl Chloride	ug/L tra/l	5 2	0.12 J	0.20 J	0.22 J	0.42 J 2 U	0.50 U 1.0 U	0.11 J	0.50 U	0.13 J <b>0.11 J</b>
cis-1,2-Dichloroethene	ug/L	70	0.16 J	0.75	0.84	3.6	0.20 J	0.17 J	0.20 J	0.63
trans 1,2-Dichloroethere	ug/L	100	0.10 J	CONTRACTOR	0.50 U	1.0	0.20 J	0.5 U	0.20 J	0.50 U
Cara Cara Cara Cara Cara Cara Cara Cara						e v gr				
Semivolatila Organic Compounds	Care Company		Contract Con		44	2.0				
bis(2-Ethylhexyl)phthalate (BEHP)	ug/L	6	3.6 J	2.6 J	7.2 *	5.1 UJ	5.2 U	5.2 U	5.0 U	2.6 J
	C 1957/1000	3500				20.44	100	THE W	e del	
Metals	•			_						
Lead Townson, The Interest	mg/L	0.015	0.0033	0,004 ]	20,004 3	0.00451	0.006	0.007	-0.0095	0.0072
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NOTES: (1) U - not detected, J - estimated, \* - execeeds cleanup level, D - result from diluted analysis

<sup>(2)</sup> Only parameters for which there are cleanup levels are reported.

Chemical Name	Location ID Aquifer Type Lab Sample ID Sample Date Test Type Unit	Ground Water Interim Cleanup Level	EM-MW-105B Overburden J7102 9/29/1998 Initial	EM-MW-105B Overburden K2257 12/15/1998 Initial	EM-MW-105B Overburden K2260 12/15/1998 Field Duplicate	EM-MW-105B Overburden K8062 3/17/1999 Initial	EM-MW-105B Overburden M4329 6/15/1999 Initial	EM-MW-105B Overburden N2201 9/23/1999 Initial	EM-MW-105B Overburden N2204 9/23/1999 Initial	EM-MW-105B Overburden N6727 12/14/1999 Initial
Volatile Organic Compounds	Offic	Level				<del></del>				
1,1,1-Trichloroethane	.ug/L	200	51	81 D	80 D	49	60	130	130	69
1,1-Dichloroethane	ug/L	3600	160	170 D	170 D	150	150	88	87	100
2-Butanone (MEK)	aug/L	350	100 U	100 (ID	443D	100 U		-50 ω	50 W	50.U 2
Acetone	ug/L	3500 5	190 14 *	250 D	200 D	130 12	140 13	50 UJ	50 UJ 1.4 J	50 U 3.8
Benzene Methylene chloride	ug/L	5	5.0 U	1.3 JD	1.1 JD	5.0 U	2.5 U	2.5 U	2.5 U	10 U *
Tetrachloroethere		. 5	5.0 U	5.0.UD	5.0 UD	5.00	0.653		1.50	0.90 3
Trichloroethene (TCE)	ug/L	5	3.0 J	4.1 JD	3.9 JD	2.8 J	3.1	1.6 J	1.9 J	1.8 J
Vinvi Chloride (s. 1914)	ug/L		3.512**		6.2 JD *	CONTRACTOR OF THE PROPERTY OF		50U*		*5.0 U * * *
cis-1,2-Dichloroethene	ug/L	70	61	59 D	57 D	44	44	12	12	30
trans-1;2-Dichloroethene	volume of	100	1334	1.4.JD	.1.5.JD	1.23	1.2.1	2.5 U	2.5 U	2.5 U
Samiyalatile Organic Cantrounds										
bis(2-Ethylhexyl)phthalate (BEHP)	ug/L	6	5.3 UJ	5.1 UJ	5.3 U	5.1 U	5.2 U	5.1 UJ	5.0 UJ	5.4 U
Metals										
Lead-war was a second	mg/L	-0.015	0.002.1	0.003.1	0.003.)	0.005.0	0.003.1	0.006	0.006	0.004 JEE
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<sup>(2)</sup> Only parameters for which there are cleanup levels are reported.

Chemical Name	Location ID Aquifer Type Lab Sample ID Sample Date Test Type Unit	Ground Water Interim Cleanup Level	EM-MW-105B Overburden Q0751 3/14/2000 Initial	EM-MW-105B Overburden Q6345 6/13/2000 Initial	EM-MW-105B Overburden R7578 12/20/2000 Initial	EM-MW-105B Overburden R7580 12/20/2000 Field Duplicate	EM-MW-105B Overburden S6718 6/6/2001 Initial	EM-MW-105B Overburden T6984 12/12/2001 Initial	EM-MW-105B Overburden T6985 12/12/2001 Field Duplicate	EM-MW-105B Overburden V4422 6/18/2002 Initial
Volatile Organic Compounds	Offic	ECVCI							<u> </u>	
1.1:1-Trichloroethane	ug/L	200	28:44-4-4	53.	17.	16	20.2	18	15	20
1,1-Dichloroethane	ug/L	3600	110	99	150	150	110	96	88	72
2-Butanone (MEK) Acetone	ug/L ug/L	350 3500	100 U	<b>20 U</b> 160	<b>50</b> 180 J	<b>45</b> 190 J	<b>50 U</b> 83 U	<b>50 U</b> 50 U	<b>50 U</b> . 50 V	<b>50. W</b>
Benzene	ug/L ug/L	5	6.9	58 *	12		9.1	6.9		3.2
Methylene chloride	ug/L	5	20 U *	4.0 U	0.52 J	0.54 J	10 U *	10 U *	10 U *	10 U *
Tetrachloroethene		, <b>5</b>	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT				0.51 J	25.04	CONTRACTOR	0,973
Trichloroethene (TCE)	ug/L	5	5.0 U	2.2	2.6	2.7	1.6 J	1.1 J	1.1 J	2.3 J
Vinyl Chloride cis-1,2-Dichloroethene	ug/L ug/L	<b>: 2</b>	6.9 ) *	<b>4.6</b> • <b>*</b> 22	1 <b>4</b> * 36	-13 - <b>*</b> 36	<b>5.4</b> * * 20	<b>3.8 J. *</b> 21	<b>3.63</b> 19	3,71 * - 4 = 16
trans-1,2-Dichloroethene		100		0.72.1		1.8				2.5 U . 7-7-
Semivolatile Organic Commounds bis(2-Ethylhexyl)phthalate (BEHP)	ug/L	6	5.7 U	43 *	5.1 U	5.0 U	4.6 J	5.1 U	1.6 J	5.0 U
Metals					•					
lead or servery	mg/Esseries	0.015	0.002.3	0.001.1	0.002 1	0.005 U	0.005 U	0.0025 1	0.0028 J	0.004 )
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NOTES: (1) U - not detected, J - estimated, \* - execeeds cleanup level, D - result from diluted analysis

<sup>(2)</sup> Only parameters for which there are cleanup levels are reported.

### **Historic Ground Water Analytical Results and Cleanup Levels**

Chemical Name	Location ID Aquifer Type Lab Sample ID Sample Date Test Type Unit		EM-MW-105B Overburden V4425 6/18/2002 Field Duplicate	EM-MW-105B Overburden Z1443 12/5/2002 Initial	EM-MW-105B Overburden A7164 6/17/2003 Initial	EM-MW-105B Overburden E2308 6/23/2004 Initial	EM-PSC-112S Overburden J7672 10/9/1998 Initial	EM-PSC-112S Overburden K2182 12/14/1998 Initial	EM-PSC-112S Overburden K8066 3/17/1999 Initial	EM-PSC-112S Overburden K8067 3/17/1999 Field Duplicate
Volatile Organic Compounds		Level								
	.ug/k======	200 3 2 3 4	20	79 🖽 🖺	5.2	4.2	0.50 U	0.50 U	0,50 U	0.50 U
1,1-Dichloroethane 2 Buznone (MEK)	ug/L	3600	73	50 300 U	68 50 U	66 20. U	9.1 10.0	12 10 U	3.6	3.5 10 U
Acetone	ug/L	3500	21. J	100 UJ	6.4 J	20 UJ	9.4 J	10 U	10 U	10 U
Benzena i ser visit i i i i i i i i i i i i i i i i i i	uo/lette e	<u> 5</u>		241		43	0.79	345	0.64	0.61
Methylene chloride	ug/L	5	10 U *	20 U *	10. U * 0.93.1	4.0 U • 0.29 J	0.5 U 0.50 U	0.50 U - 0.50 U	0.50 U - <b>0.50 U</b>	0.50 U 0.50 U
Trichloroethene (TCE)	ug/L	5	2.2 J	5 U	1.2 J	0.99 J	0.50 U	0.50 U	0.50 U	0.50 U
	<del>nov/Landard</del>			10.04	-5.1 : ±	412	20.20.1	0.283		0.470
cis-1,2-Dichloroethene	ug/L	70 700	16 0.51 1	6.2	10 <b>0.61.)</b>	11	0.18 J 0.14 J	0.14 J 0.28 J	0.50 U 0.50 U	0.50 U • 0.50 U
					VIVA Y			X44V2	PISO G	V V
Semivolatile Organic Compounds bis(2-Ethylhexyl)phthalate (BEHP)	ug/L	6	5.0 U	5 U	5.0 U	5.1 U	5.3 U	5.3 U	5.0 U	5.1 U
Metals										
LÉRGO DE PROPRIETO DE LA COMPANSIONE D	:mg/L=	0.015	0.004 J	.0.003.1	*1.00141	0.00088.1	. 0.005 U : 🚉	(J.005 U	*0.005 U	0.005.0435
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<sup>(2)</sup> Only parameters for which there are cleanup levels are reported.

### **Historic Ground Water Analytical Results and Cleanup Levels**

Chemical Name	Location ID Aquifer Type Lab Sample ID Sample Date Test Type Unit	Ground Water Interim Cleanup Level	EM-PSC-112S Overburden M4253 6/14/1999 Initial	EM-PSC-112S Overburden M4254 6/14/1999 Field Duplicate	EM-PSC-112S Overburden N1969 9/20/1999 Initial	EM-PSC-112S Overburden N6671 12/13/1999 Initial	EM-PSC-112S Overburden N6673 12/13/1999 Initial	EM-PSC-112S Overburden Q0664 3/13/2000 Initial	EM-PSC-112S Overburden Q0663 3/13/2000 Field Duplicate	EM-PSC-112S Overburden Q6353 6/12/2000 Initial
Volatile Organic Compounds		Level								
1.1.1 Trichiomethane 1,1-Dichloroethane	ug/L ug/L	<b>200</b> 3600	<b>0.50 U</b> 5.7	<b>. 0.50 U</b>	0.50 U 2.6 J	0.50 U 4.6	<b>0.50 U</b> 4.5	. <b>0.50 U</b> 1.7	0.50 U 1.7	<u>0.50 U</u> 4.6
2-Butanone (MEK)	ua/t		10 U.S.	100	10U.S.	100	10 V	10 U	100	100
Acetone	ug/L	3500	10 U	10 U	2.1 J	10 U	1.1 J	10 U	10 U	7.2 3
Rethylene chloride	ug/L ug/L	5	2 0.50 U	0.50 U	0.5 U	<b>0.97</b> 2.0 U	<b>0.96</b> 2.0 U	<b>0.39 J</b> 2.0 U	2.0 U	<b>0.78</b> 2.0 U
Tetrochloroethene Trichloroethene (TCE)	ug/L ug/L	<b>5</b>	0.50 U 0.50 U	<b>0.50 U</b> 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	<b>0.50 U</b> 0.50 U	<b>0.50 U</b> 0.50 U	0 <b>.50 U</b> 0.50 U	0.50 U 0.50 U
	ug/L		100		1.0 U	0.30 0	1.00	1.00	1.0 U	1.00
cis-1,2-Dichloroethene	ug/L	70	0.50 U	0.50 U	0.50 U	2.3	1.2	0.50 U	0.50 U	0.50 U
trans-1.2-Dichloroothene	.ug/Lazz	100	0.133	0.143	0.50 U	20.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Semivolatile Organic Compounds bis(2-Ethylhexyl)phthalate (BEHP)	ug/L	6	5.1 U	5.1 U	5.1 U	5.6 U	7.1 U	5.2 U	5.3 U	5.1 U
Metals										
Leader	mg/L	0.015	0.005 U	0,005 U	0.005.0	: 0.005 U	0.005 U *	. 0.005 U	0.005 U	0.005/0
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<sup>(2)</sup> Only parameters for which there are cleanup levels are reported.

Chemical Name         Unit         Level           Volatile Organic Compounds         1,1,5 trichloroethane         05/L         200         0.50 U         0.50 U         0.5 U         0.50 U         0.5 U	0,50 U 0,50 U 5.5 7.2
1.1.1-Linchlorgethane         og/s         200         0.50 U         0.50 U         0.50 U         0.50 U           1,1-Dichlorgethane         ug/L         3600         7         8.6         8.6         2.2         3.6	
1,1-Dichloroethane ug/L 3600 7 8.6 8.6 2.2 3.6	
2-Butanone (MEK) 10-U1 1	10.U - 10.U
Acetone ug/L 3500 10 UJ 10 U 10 U 10. UJ 10 UJ	10. U 10 UJ
Betwee 5	0.44 J 0.58 + 5 2.0 U 2.0 U
Tetrachloroethere 20 2.00 2.00 2.00 2.00 2.00 2.00 2.00	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00
Trichloroethene (TCE) ug/L 5 0.50 U 0.50 U 0.50 U 0.50 U 0.50 U	0.50 U 0.50 U
Virgi Ghekka 1907 1907 1907 1907 1907 1907 1907 1907	
cis-1,2-Dichloroethene ug/L 70 0.50 U 0.50 U 0.5 U 0.50 U 0.50 U	0.13 J 0.50 U
trans-1, 2-Dichloroethene (1994) 1994 1994 1000 1000 1000 1000 1000 1000	0.50 V 1. 0.50 U
Semiyolatile Organic Compounds	Commence of the second second
bis(2-Ethylhexyl)phthalate (BEHP) ug/L 6 5.0 U 2.6 J 5.1 U 5.0 U 5 U	5.0 U 5.3 U
Metals	
Lead 0.005 U 0.005 U 0.005 U 0.005 U 0.005 U 0.005 U	- 0.0050 U 0.0050 U
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<sup>(2)</sup> Only parameters for which there are cleanup levels are reported.

#### Attachment 1

### Documents Reviewed for the 5-year Review

- 1. Environmental Protection Agency. PSC Resources Site, Record of Decision. September 15, 1992
- 2. Environmental Protection Agency. PSC Resources Site, Explanation of Significant Differences. November 26, 1996
- 3. O'Brien & Gere Engineers, Inc. Final Remedial Construction Source Control Close-Out Report. June 1998.
- 4. O'Brien & Gere Engineers, Inc. Operation and Maintenance Plan, Environmental Monitoring Work Plan, and Project Operations Plan. June 1998.
- 5. Environmental Protection Agency. PSC Resources Site, Preliminary Close-Out Report (PCOR). August 28,1998.
- 6. Environmental Protection Agency. PSC Resources Site, Remedial Action Report. March 9, 1999.
- 7. O'Brien & Gere Engineers, Inc. Draft Summer 2003 Environmental Monitoring Report. October 2003.
- 8. O'Brien & Gere Engineers, Inc. Draft Summer 2004 Environmental Monitoring Report. November 2004.
- 9. O'Brien & Gere Engineers, Inc. Letter Report. "Restored Wetland/Enhancement Area Evaluation. January 18, 2005.